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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/807,427	03/24/2004	Takeshi Kijima	119225	3531	
25944 OLIFF & BER	7590 01/25/2007 RIDGE PLC		EXAMINER		
P.O. BOX 1992	28		SPEER, TIMOTHY M		
ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
		1775			
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SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE		
3 MONTHS		01/25/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
Office Antique Occurrence	10/807,427	KIJIMA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Timothy M. Speer	1775	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period variety received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this co D (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 11/03 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.		· merits is
Disposition of Claims			
4) ⊠ Claim(s) <u>1-30</u> is/are pending in the application. 4a) Of the above claim(s) <u>18-29</u> is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) <u>1-17,30 and 31</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	n from consideration.		·
Application Papers			
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 24 March 2004 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ objected to drawing(s) be held in abeyance. Sec ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CF	FR 1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National	Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 03/24/04.	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate	

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## **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election of Group I (claims 1-17, 21-26, 30 and 31) and species ABO<sub>3</sub> (reading on claims 1-20 and 27-31) in the replies filed on 07/17/06 and 11/03/06, respectively, is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). In light of the elections, claims 1-17, 30, and 31 will be treated on the merits and claims 18-29 are withdrawn from consideration.

# **Priority**

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

# Information Disclosure Statement

3. The information disclosure statement filed 03/24/04 has been considered and made of record. A copy of the 1449 initialed, dated and signed by the Examiner is included herewith.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-17, 30, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishimura (USPN 5,378,382) in view of Nabatame (EP 1 039 525).

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6. Nishimura discloses a ferroelectric material for forming a ferroelectric that is described by the formula ABO<sub>3</sub> (col. 1, lines 27-37). The ferroelectric comprises an A-site compensation component which compensates for A-site vacancy and a B-site component which compensates for B-site vacancies (col. 4, lines 15-22 and col. 2, lines 48-63). Nishimura discloses, for instance, a lead zirconium titanate (PZT) material, a ferroelectric.

- 7. Nishimura discloses a PZT ferroelectric material comprising constituent elements for PZT wherein an element which becomes a divalent state, e.g., Ca, and an element which becomes a trivalent state, e.g., La, are added as the A-site compensation component (col. 3, lines 25-27). Moreover, Nishimura discloses the addition of Nb.
- 8. Nishimura fails to teach the inclusion of Se or Ge as the A- or B-site compensation component. Nabatame, however, teaches that it is old and well known in the art to add Si to ferromagnetic materials to improve the characteristics of the ferroelectric (col. 8, line 57 to col. 9, line 16, for example). Accordingly, it would have been obvious to one having ordinary skill in the art to include Si as the compensating material in the ferroelectric material of Nishimura, since Nabatame teaches that Si improves the characteristics of such ferroelectrics.
- 9. In light of the above, it is the Examiner's position that the present claims are prima facie obvious in view of the applied prior art.

### Double Patenting

10. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re* 

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Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

11. Claims 1-17, 30, and 31 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, and 5 of allowed copending Application No. 10/807,357. Although the conflicting claims are not identical, they are not patentably distinct from each other because the present claims are fully encompassed by the copending claims.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy M. Speer whose telephone number is 571-272-8385. The examiner can normally be reached on M-Th, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on 571-272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Timothy M. Speer

JOHN J. ZIMMERMAN PRIMARY EXAMINER

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